

Title (en)

BONE PLATE SCREW-BLOCKING SYSTEMS AND METHODS

Title (de)

SYSTEME UND VERFAHREN ZUR ARRETIERUNG VON KNOCHENPLATTENSCHRAUBEN

Title (fr)

SYSTÈMES ET PROCÉDÉS DE BLOCAGE DE VIS DE PLAQUE VISSÉE

Publication

**EP 2456376 A4 20140101 (EN)**

Application

**EP 10802977 A 20100723**

Priority

- US 22850809 P 20090724
- US 2010043106 W 20100723

Abstract (en)

[origin: US2011022097A1] A bone plate screw-blocking system and method that comprises a plate with at least two bone screw receiving holes, blocking elements, bone screws, and a tool capable of simultaneously actuating at least two blocking elements. The plate includes an upper surface and a lower surface with bone screw receiving holes that extend through both surfaces of the plate. The bone screws couple the plate to the bone via the bone screw receiving holes. The blocking elements are movably positioned proximate each bone screw receiving hole. In an initial unblocked position, the blocking elements do not cover the bone screw receiving holes. Upon movement into final blocked positions, the blocking elements cover at least a portion of the bone screw receiving holes and preferably extend over at least a portion of the bone screw during use.

IPC 8 full level

**A61B 17/58** (2006.01); **A61B 17/70** (2006.01); **A61B 17/80** (2006.01); **A61B 17/86** (2006.01); **A61F 2/44** (2006.01)

CPC (source: EP KR US)

**A61B 17/7059** (2013.01 - EP KR US); **A61B 17/8033** (2013.01 - EP KR US); **A61B 17/8038** (2013.01 - EP KR US);  
**A61B 17/8042** (2013.01 - EP KR US); **A61B 17/8061** (2013.01 - KR US); **A61B 17/808** (2013.01 - EP KR US); **A61B 17/8605** (2013.01 - US);  
**A61B 17/8625** (2013.01 - US); **A61B 17/8635** (2013.01 - KR); **A61B 2017/564** (2013.01 - US)

Citation (search report)

- [X] WO 2009061517 A1 20090514 - STRYKER SPINE [FR], et al
- [X] US 2006189997 A1 20060824 - GUENTHER KEVIN V [US], et al
- [X] US 2005033294 A1 20050210 - GARDEN BENJAMIN [US], et al
- See references of WO 2011011720A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**US 2011022097 A1 20110127**; **US 8419777 B2 20130416**; AU 2010275475 A1 20120223; AU 2010275475 B2 20131003;  
CA 2768960 A1 20110127; CA 2768960 C 20161213; EP 2456376 A2 20120530; EP 2456376 A4 20140101; JP 2013500076 A 20130107;  
JP 2015051315 A 20150319; JP 5662442 B2 20150128; KR 20120082396 A 20120723; MX 2012000994 A 20120625;  
US 2013204306 A1 20130808; US 2014371800 A1 20141218; US 2017224388 A1 20170810; US 8795341 B2 20140805;  
US 9445851 B2 20160920; WO 2011011720 A2 20110127; WO 2011011720 A3 20110428

DOCDB simple family (application)

**US 84290110 A 20100723**; AU 2010275475 A 20100723; CA 2768960 A 20100723; EP 10802977 A 20100723; JP 2012521843 A 20100723;  
JP 2014245711 A 20141204; KR 20127004765 A 20100723; MX 2012000994 A 20100723; US 2010043106 W 20100723;  
US 201313802258 A 20130313; US 201414312452 A 20140623; US 201615269687 A 20160919